

**Amendments to the Specification**

Please replace the paragraph at page 3, line 9 - page 4, line 26 with the following amended paragraph:

According to one aspect of the present invention, there is provided a role managed collaborative learning support system for collaborative learning between a learning management server and a plurality of clients via a network, wherein: the client comprises resource operation transmission means and resource display means, the resource transmission means transmitting a request for a resource operation together with a learner ID for identifying a learner using the client, to the learning management server; the learning management server comprises resource operation means for operating resources of the learning management sever in accordance with the request by the client, resource reference means for notifying the client of the contents of the resources, and operation interpretation means for interpreting the meaning of the resource operation request sent to the resource operation means; the learning management server further comprises activity model data representative of a set of role names and a set of links indicating behaviors between the role names, a role table storing a correspondence of each learner ID and resource relative to each role name, and an operation interpretation table to be used for interpreting the request sent from the resource operation transmission means of the client to the resource operation means as behaviors between the resources; the resource operation means of the learning management server converts the request sent from the resource operation transmission means of the

client into behavior descriptive data representative of behaviors between resources and learner ID's by using the operation interpretation table, and inquires the operation interpretation means whether an operation corresponding to the behavior descriptive data is permitted; the operation interpretation means refers to the role table to check whether there is a role name assigned to the learner ID and resource and being coincident with the contents of the activity model data to thereby judge whether the request is permitted, and returns judgement-judgment results to the resource operation-measoperation means; and if the judgement-judgment results indicate a permission, the resource operation means operates the resource, and the resource display means of the client receives resource operation results from the resource operation means and displays the resource operation results.

---

Please replace the paragraph at page 10, line 24 - page 11, line 13 with the following amended paragraph:

Next at Step 13005 the "subject", "object list" and "behavior" are sent to the operation interpretation unit 1002 to inquire whether the operation can be permitted. At a condition judgement-judgment Step 13006 it is judged whether the results indicate that the operation can be permitted (refer to Fig. 14). If this judgement-judgment is asserted, it means that it is judged that the operation interpretation unit 1002 can perform the operation and that the resource 1008 is actually operated in a series of processes at Step 13007 and following Steps. At ~~Step S13008-Step 13008~~ the resource operation transmission unit 1010 on the "subject" side is notified of the completion of the resource operation. If it is judged at the judgement-judgment Step

13006 that the judgement judgment is negated, then at Step 13009 it is notified via

A2 the resource operation unit 1003 that the REQUEST" of the client 1009 of the "subject" cannot be performed.

Please replace the paragraph at page 12, lines 2-8 with the following amended paragraph:

If it is judged at a condition judgement judgment Step 14004 that the link exists, it means that the operation can be permitted so that at Step 14005 the resource operation unit 1003 is notified of a permission of the operation. If the A3 judgement judgment Step 14004 is negated, then at Step 14006 the resource operation unit 1003 is notified of an inhibition of the operation.

Please replace the paragraph at page 12, lines 21-28 with the following amended paragraph:

Next, at Step 15004 REQUEST and ID are sent to the resource operation unit 1003. It is checked whether a condition judgement judgment Step 15005 asserts. If the judgement judgment Step asserts, then at Step 15006 the resource display unit 1011 is requested to display the operation results. If the judgment Step 15005 negates, then at Step 15007 a message that there is no privilege for operating the resource is displayed.

Please replace the paragraph at page 15, lines 6-14 with the following amended paragraph:

Lastly at a condition judgement judgment Step 16003 it is checked whether A5 there is any monitoring condition satisfied. If there is any monitoring condition

satisfied, then at Step 16004 this fact is notified to the monitoring condition display unit. In this manner, even if the teacher does not check the learning status of each learner, a collaborative learning support system capable of monitoring learners can be configured only by writing the monitoring conditions.

Please replace the paragraph at page 16, lines 10-25 with the following amended paragraph:

Lastly, with reference to Fig. 17, the operation of the resource operation unit 1003 will be detailed. At ~~Step S17001~~ Step 17001, each time when a request for a resource operation is input from a client, the resource operation unit 1003 executes a series of Steps starting from Step 17002. First, at Step 17002 "REQUEST" is received. At Step 17003 the learner ID of REQUEST is stored in the "subject" and the request contents are set as  $F(A_0, A_1, \dots, A_n)$ . At Step 17004 by referring to the resource management procedure table 11001, an item having  $F(A_0, A_1, \dots, A_n)$  as the operation pattern is searched. At a condition judgement judgment Step 17005 it is checked if such an item exists. If this judgement judgment Step is asserted, a series of processes starting from Step 17006 is performed to operate the resource.

Please replace the paragraph at page 16, line 26 - page 17, line 8 with the following amended paragraph:

First, at Step 17006 an operation method program M is derived from the searched item to call the program  $M(A_0, A_1, \dots, A_n)$  and obtain the "subject" and "object list". At Step 17007 the "subject", "object list" and "behavior" are sent to the operation interpretation unit 1002 to inquire whether the operation can be permitted.

At a condition judgement-judgment Step 17008 it is judged whether the results indicate that the operation can be permitted. If this judgement-judgment is asserted, a series of processes starting from Step 17009 is performed to operate the resource.

Please replace the paragraph at page 17, lines 9-24 with the following amended paragraph:

At Step 17009 the REQUEST is permitted and the resource is operated. At Step S17010-Step 17010 the resource operation transmission unit 1010 on the "subject" side is notified of the completion of the resource operation. If it is judged at the judgement-judgment Step 17008 that the judgement-judgment is negated, then at Step 17011 the "subject" is notified that the REQUEST" of the client 1009 cannot be performed. If the judgement-judgment Step 17005 is negated, then at Step 16012 the fact that there is no method for performing the REQUEST is returned to the resource operation transmission unit of the "subject". In this manner, the interpretation of the REQUEST" can be performed by utilizing the resource operation registered for the resource operation unit 1003 and the activity model data. Different types of resource operations can therefore be added as desired.